On a Tuesday morning, buses are unloading in front of the local elementary school, and parents maneuver their minivans and SUVs through the driveway. But one of the cars doesn’t belong here – in fact, its driver is prohibited from school zones. Minutes later, an officer arrives to arrest the surprised violator before he has a chance to cause an incident. Was it an alert school official or worried parent that notified the authorities? Actually, it was neither.

On an arterial road leading to a shady auto-parts business, police set up a road block to locate stolen vehicles. Day after day, they catch crooks driving stolen cars on the way to disassembly. Why don’t car thieves get smart and avoid the road block? They never even know it’s there.

In a rural area 20 miles outside of town, a concert has brought out thousands of people and cars, spread over many acres. The local county sheriff’s office is keeping an eye on the event, responding quickly to any hints of drug use or gang presence. When a wanted felon from another state – on the run for months – can’t resist seeing his favorite band, deputies are waiting by his car when he comes back. As he rides to the county jail, he wonders, who could have turned him in? Turns out, no one did.
THE RIGHT RESOURCE IN THE RIGHT PLACE
We understand that law enforcement can’t be everywhere, all the time. Officers need to be on patrol in the community, not watching the same corner all day. Yet there are times and places where an extra pair of eyes is needed – perhaps for hours, or even days. That’s why we created the ALT1000 ALPR Surveillance Trailer.

Self-contained and discreet, the ALT1000 lets you bring Automatic License Plate Recognition (ALPR) to places where permanent equipment isn’t practical, and stationing officers isn’t justified. Hitch-and-go mobility means that you can easily redeploy ALPR equipment to where it’s needed most – even if needs change from day to day, or even from morning to night. And because it looks and operates just like a radar trailer, the ALT1000 makes license plate surveillance more discreet and effective, while encouraging speeders to slow down with its speed and message signs.

Which means you can monitor a school zone for custody violators, a neighborhood for gang infiltration, a county fair for sexual predators, a chop shop for arriving stolen vehicles, or a corner for drug activity – all without obvious police presence.

Inside the ALT1000 you will find a complete, self-contained ALPR kit. Developed with PIPS, a Federal Signal Company and the leader in license plate recognition systems, our ALPR delivers best-in-class license plate recognition capabilities. Connected via your choice of wireless network, the system can let you know in seconds if a plate of interest has been detected – which means you can act more quickly.

The system’s back end, known as BOSS (Back Office System Server), gives you powerful data-mining capabilities. Look up partial plates, get plate histories, map a plate’s most frequently spotted locations – all with a few clicks of a mouse. From Cincinnati to Los Angeles, BOSS has proven itself to be an invaluable tool for gathering intelligence and locating offenders.

The ALT1000 can be as interactive as you need. It can simply scan and store the images and license plates of all passing vehicles, to be used later for intelligence work. It can send a message if a plate of interest passes by. Or you can operate the system remotely in real time – from the command center, on patrol, or a vehicle parked discreetly nearby.

We understand that you can’t be everywhere. That’s why the ALT1000 is here to help you watch over your community. The ALT1000 ALPR Surveillance Trailer uses the same components as Motorola’s mobile Automatic License Plate Recognition systems, including the following:

- Slate™ cameras: The rugged, low-profile Slate digital camera supports both color and infrared image capture.
- PAGIS®: High-accuracy software that captures and recognizes license plates in seconds
- MW810 Mobile Workstation: fully rugged vehicle-mounted computer that provides reliable, cost-effective wireless connectivity and computing power for mission-critical applications
- BOSS®: Provides administrative and data analysis functions for both mobile and fixed deployments of ALPR
SLATE™ ALPR CAMERAS

Technologies: TripleFlash® selects the best of 3 images
PlateFinder automatically locates license plate

Optics: Infra-red and full-color
Medium and long range

Weight: < 3.31 lbs (1.5 kg each)

Dimensions: 7.16 in x 3.54 in x 1.25 in
(182 mm x 90 mm x 42 mm)

Connectors: Metal, sealed (IP67)

Regulatory compliance: US Safety: UL-60950-1
Complies with EPP, RoHS and WEEE

More information at motorola.com/ALPR

ALPR SOFTWARE

PAGIS® (Police ALPR Graphical Interface System)
patrol-car based license plate recognition software:
- Reads a license plate in less than two seconds
- Proprietary, high-accuracy ALPR software with optical character recognition (OCR)
- OCR optimized for state or jurisdiction
- Vehicle color image capture for evidentiary purposes
- Support for wireless database synchronization
- Interface designed by public safety for public safety

BOSS® (Back Office System Server) software:
- Serves as central repository for ALPR data
- Supplies powerful data mining capabilities
- Provides administrative and data analysis functions

More information at motorola.com/ALPR

MW810 MOBILE WORKSTATION

Ruggedized: MIL-STD-810G and IP54

Display: 12.1 in, 400 NIT, ruggedized touchscreen

LAN: Two GBE + one 10Base-T (10/100 Mbps)

WLAN: 802.11 a/b/g/n (supports 3x3 MIMO)

WWAN: CDMA EVDO Rev. A or HSUPA/HSUPA/HSDPA/UMTS/EDGE/GPRS

More information at motorola.com/MW810

GENERAL SPECIFICATIONS

Type: Bumper Pull

Display: 18 in, seven (7) segment high intensity LED boards

Power: 12 V power supply (solar panel option available)

Speed Range: 5 - 150 mph (8 - 241 km/h)

Radar Type: SI-3, K-band

Finish: White powder coat paint

Construction: 4 in open “C” channel

Weight: Approx. 1400 lbs (635 kg)

Environmental: -4°F to +140°F (-20°C to +60°C)

Safety: Meets all US D.O.T. safety standards for highway use

MECHANICAL

Length: 120 in (305 cm) including the tongue

Minimum Height: 53 in (135 cm) with display lowered

Maximum Height: 100” (254 cm) with display frame raised and no speed limit sign, 120” (305 cm) with speed limit sign in place

Width: 72 in (183 cm)

Motorized Lift: 12 VDC Actuator used to lift the display

DISPLAY

Cabinet Dimensions: 28 in H x 28 in W x 8.25 in D
(72 cm H x 72 cm W x 21 cm D) Cabinet

Display Matrix: Two (2) conformal coated, 18”
(46 cm), seven segment, amber, high intensity LED displays boards for mph (2.5 digit for km/h)

Matrix Dimensions: 18 in H x 22.5 in W - (2 digits)
(46 cm H x 61 cm W) - (2.5 digits)

LEDs: High Intensity amber, 100° view angle

Luminosity: 1300 mlm

Pixel Pitch: 1 in (25 mm)

Display Control Panel: Contains the power on/off switch, Violator and High Speed Cutoff pushwheel switches, test push switch and EZ-STAT data logger port.

More information at motorola.com/ALPR
### PRODUCT SPEC SHEET

**ALT1000 ALPR SURVEILLANCE TRAILER**

#### STORAGE BOXES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>17.5 in H x 48 in W x 24 in D (45 cm H x 122 cm W x 61 cm D)</td>
</tr>
<tr>
<td>Capacity</td>
<td>11.6 cubic feet (328,400 cm³)</td>
</tr>
<tr>
<td>Characteristics</td>
<td>Vented, removable with lockable paddle latch</td>
</tr>
<tr>
<td>Lid Support</td>
<td>150 lb gas-lift struts</td>
</tr>
<tr>
<td>Seal</td>
<td>Rubber automotive weatherstrip</td>
</tr>
</tbody>
</table>

#### FRAME

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Formed from 10-gauge hot rolled steel. Open “C” channel design.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>53 in H x 72 in W x 120 in D (135 cm H x 183 cm W x 305 cm D) during transport</td>
</tr>
<tr>
<td>Finish</td>
<td>Graffiti &amp; chemical resistant white powder coat paint</td>
</tr>
<tr>
<td>Suspension</td>
<td>1500 lb (680.4 kg) tension springs</td>
</tr>
<tr>
<td>Fenders</td>
<td>14-gauge hot rolled steel</td>
</tr>
<tr>
<td>Leveling Jacks</td>
<td>Four (4) 10 in adjustable swivel jacks mounted to each corner</td>
</tr>
<tr>
<td>Lights</td>
<td>Meets all D.O.T. requirements for turn signals, brake, tail &amp; license plate lights</td>
</tr>
<tr>
<td>Tongue</td>
<td>42 in (107 cm) long with 2 in ball coupler. Removable</td>
</tr>
<tr>
<td>Tongue Weight</td>
<td>140 lbs (63.5 kg)</td>
</tr>
<tr>
<td>Wheels - Rims</td>
<td>14 in x 6 in one-piece chrome</td>
</tr>
<tr>
<td>Wheels - Tires</td>
<td>14 in - 185/75R14 radial</td>
</tr>
<tr>
<td>Wheel Lock</td>
<td>6 ft (1.83 m) steel cable with padlock</td>
</tr>
</tbody>
</table>

#### RADAR

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>SI-3</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 1 unit of measure (± 1 mph, ± 1 km/h)</td>
</tr>
<tr>
<td>Beam Width</td>
<td>12° nominal</td>
</tr>
<tr>
<td>Detection Distance</td>
<td>1500 ft (457.2 m) (Adjustable)</td>
</tr>
<tr>
<td>Direction</td>
<td>Approach only</td>
</tr>
<tr>
<td>FCC Identifier</td>
<td>HTRCR-1KD</td>
</tr>
<tr>
<td>Frequency</td>
<td>24.150 GHz nominal, (K-Band)</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear</td>
</tr>
<tr>
<td>Power Density</td>
<td>≤ 1 mW/cm²</td>
</tr>
<tr>
<td>Power Output</td>
<td>7 mW nominal</td>
</tr>
<tr>
<td>Speed Range</td>
<td>5 - 150 mph (8 - 241 km/h)</td>
</tr>
</tbody>
</table>

Motorola, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. motorola.com/ALPR

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